

VOLTAGE CONTROLLER FOR INTERNAL COMBUSTION ENGINE TYPE ELECTRIC MOTOR VEHICLE

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Abstract of JP54077909

PURPOSE:To control a voltage controller for an internal combustion engine type electric motor vehicle to obtain constant voltage with small ripple factor by controlling to switch the rectification of the voltage controller between full-wave and half-wave rectifications in response to the output voltage of a generator. **CONSTITUTION:**A generator MG driven by an internal combustion engine EN incorporates three-phase AC output terminals U, V, W, and a neutral point 0. The output voltage of the generator MG is detected by a voltage detector GVD, and is compared with the voltage of a standard voltage unit GV by a voltage comparator GCP. When the output voltage of the generator MG is lower than the voltage of the unit GV, the detector deenergizes the coil RYa of a switch relay RY to thereby close electric contacts RYb and to open the contacts RYc. When the contacts RYb is closed, the coil K1a of a switching contactor K1 is energized to thereby close contacts K1b. The generator MG is connected to a voltage controller AVR through a full-wave rectifying circuit at this time. When the output voltage of the generator MG is higher than the voltage of the unit GV, the voltage controller is connected to the generator MG through a half-wave rectifying circuit via a neutral line.

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